

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

Effective: 11/10/2021

Version: 2.0

Instrument #: 100376 Analyst: C. O. Bryant Start Date: 2/1/22

- Diagnostic Test (attached)
- Adjust voltages, if needed
 - Lamp (2.6V Maximum)
 - Bias
 - Cooler (2.0V Maximum)
 - Chopper Frequency
 - Detector Voltage (-0.100V to 0.100V)
- Internal Standard value \leq 3.00%
- Set RFI Sensitivity
- Adjust barometer reading to match NIST traceable barometer
- Adjust volume setting, if needed (1.5L +/- 0.1L)
- Print Technician Screen (attached)
- Print Calibration Factors (attached)
- Minimum Volume Test 1.6 L (1.3L to 1.7L)

Linearity Test (attached)

0.020g/210L Mnf: Airgas Lot: AG100401 Exp: 1/4/23
0.040g/210L Mnf: Airgas Lot: AG111710 Exp: 4/27/23
0.080g/210L Mnf: Airgas Lot: AG018102 Exp: 6/29/22
0.100g/210L Mnf: Airgas Lot: ~~108404~~ AG108404 Exp: 3/05/23
0.200g/210L Mnf: Both Lot: 20510 Exp: 12/8/22
Simulator S/N: DR4161 Date Calibrated: 6/16/21
0.300g/210L Mnf: Both Lot: 21030 Exp: 2/2/23
Simulator S/N: SD1200 Date Calibrated: 6/15/21

Functional Tests (attached)

- Incomplete
- Invalid
- Maximum Attempts Exceeded
- Radio Frequency Interference
- Interference (Volatiles)

Acetone Mnf: Both Lot: 21DP41158 Level: 0.100 Exp: 4/29/23
Simulator S/N: SD1177 Date Calibrated: 6/15/21
Isopropanol Mnf: Both Lot: 21DP41158 Level: 0.100 Exp: 4/29/23
Simulator S/N: SD1198 Date Calibrated: 6/15/21
Neg. Control Mnf: Both Lot: 21DP41158 Level: 0.100 Exp: 4/29/23
Simulator S/N: SD1088 Date Calibrated: 6/15/21

- Verify stylus is calibrated
- Reset Options
- Clear Memory
- Verification of Calibration
- Non-Drinking Subject Test
- Upload
- Remove Tank Prior to Shutdown
- Add Linearity Data to Spreadsheet

End Date: 2/2/22

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100376

Date: 02/01/2022
Time: 16:31:32

VERSIONS
DMT: 3.02
PIC: 3.02
Modem: 2.6
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.9°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 47.7°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.64 V PASSED
(0.98 V - 2.30 V)
Cooler Voltage = 1.66 V PASSED
(1.00 V - 2.32 V)
Bias Voltage = 80 V PASSED
(48 V - 112 V)
Chopper Freq = 535 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.7 in

PUMP INFO

Flow Rate = 4.015 L/M PASSED
(3.500 L/M - 6.500 L/M)

DETECTOR INFO

PUMP ON PASSED
(0.002 V <= 0.010 V)
PUMP OFF PASSED
(0.002 V <= 0.010 V)

FILTER INFO

Filter 1 PASSED
Filter 2 PASSED
Filter 3 PASSED

INTERNAL STANDARD

Xq = 0.075 1.02% (0.00% - 4.00%) PASSED

Technician Screen

DATAMASTER dmt: 100376

Date: 02/01/2022

Time: 4:35 PM

Temperatures (°C)

Sample Cell: 48.7°C

Breath Tube: 47.7°C

Current Barometer 29.7 in

Volume (Ltr) 1.52

Settings

Lamp: 1.64 V

Bias: 80 V

Cooler: 1.66 V

Chopper: 534 Hz

Voltages (V)

Flow: 1.07 V

Detector: 0.096 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100376

Date: 12/29/2021
Time: 12:08:56

OPERATOR NAME:
CARLIE GLAISTER
CERTIFICATE #: 10436

Ca = 0.1000
CAL = 0.974499 0.800 <= CAL < 1.200
b1 = 0.0006 0.0000 <= b1 < 0.0040
b2 = 0.0064 0.0010 <= b2 < 0.0100
b3 = 0.0001 0.0000 <= b3 < 0.0040
Xq = 0.0762 0.0500 <= Xq < 0.2000
a21 = 1.177238 1.050 <= a21 < 1.300
a31 = 0.378082 0.300 <= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100376

Date: 02/02/2022
Time: 09:01:54

SUBJECT NAME:
TEST TEST
LICENSE #: VOLUME TEST

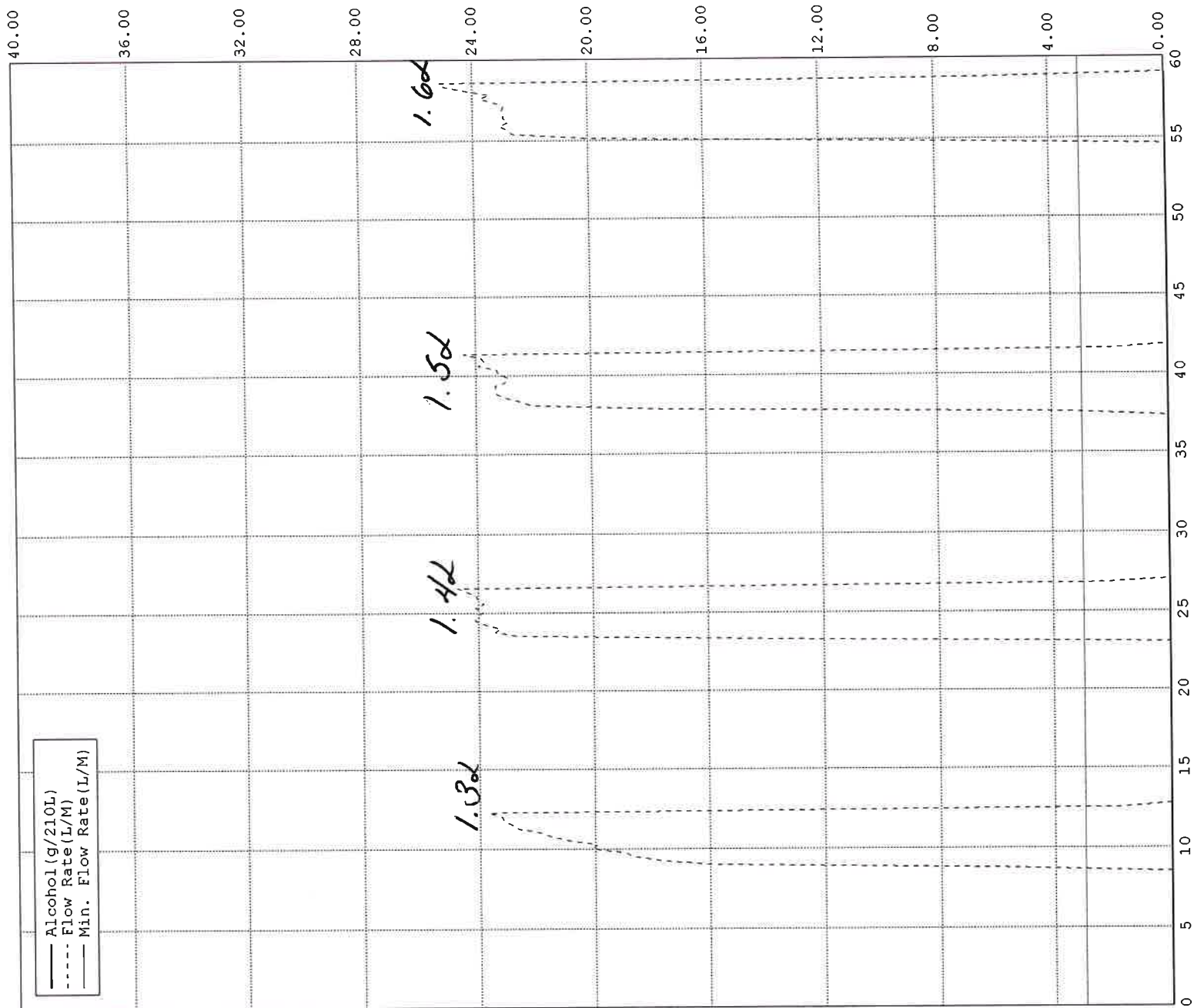
OPERATOR NAME:
COLLEEN S OBRYANT
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 22-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.66: 0.079
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	09:03
BLANK TEST	0.000	09:03
INTERNAL STANDARD	VERIFIED	09:03
EXTERNAL STANDARD	0.078	09:03
BLANK TEST	0.000	09:04
SUBJECT SAMPLE (Vol=1.52L)	0.000	09:05
BLANK TEST	0.000	09:06
EXTERNAL STANDARD	0.078	09:06
BLANK TEST	0.000	09:07



LINEARITY CHECK

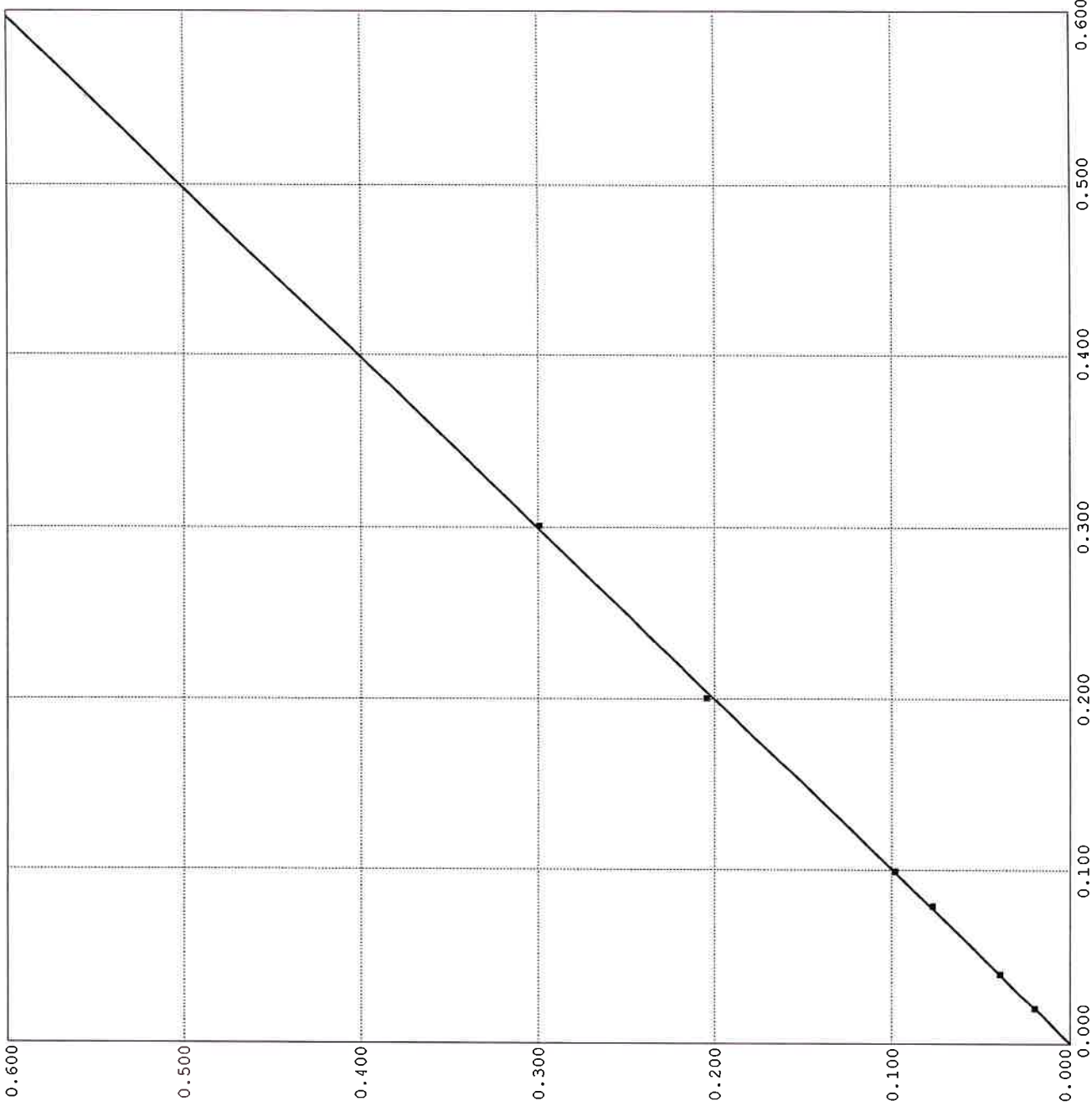
 Alaska Department of Public Safety
 DATAMASTER dmt: 100376

Date: 02/02/2022
 Time: 09:38:43

SUPERVISOR NAME:
 COLLEEN S OBRYANT
 OPERATOR'S #: 6237

TARGET	AVERAGE	STD. DEV.
0.020	0.0204	0.0005
0.040	0.0400	0.0000
0.079	0.0780	0.0000
0.099	0.0990	0.0000
0.200	0.2052	0.0004
0.300	0.3000	0.0007

SLOPE = 1.007041
 R² = 0.999624



CS

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100376

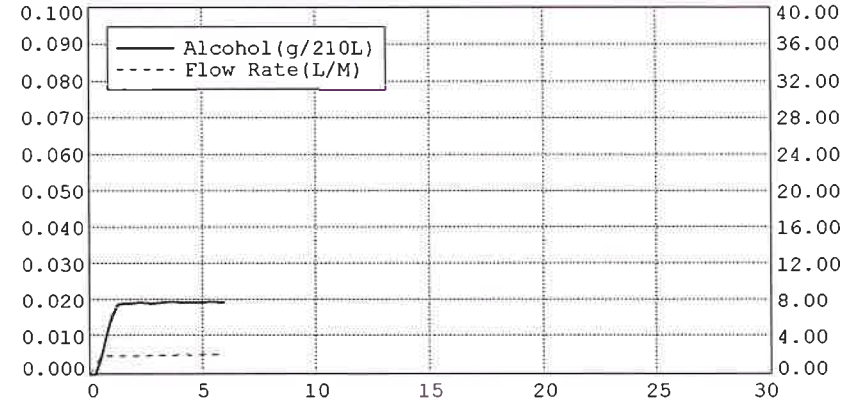
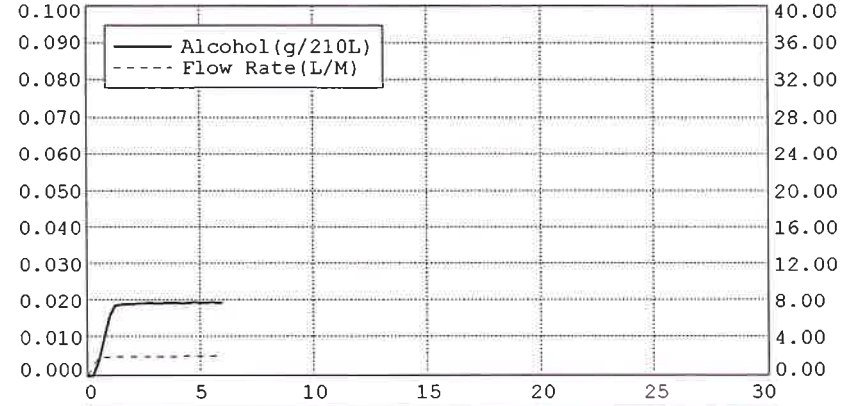
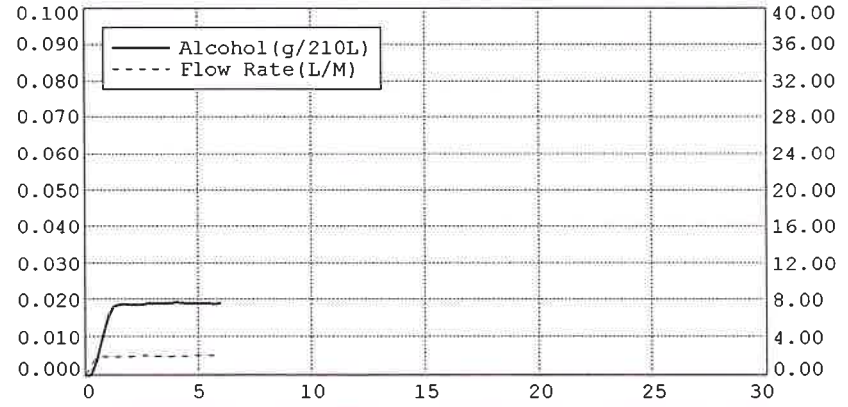
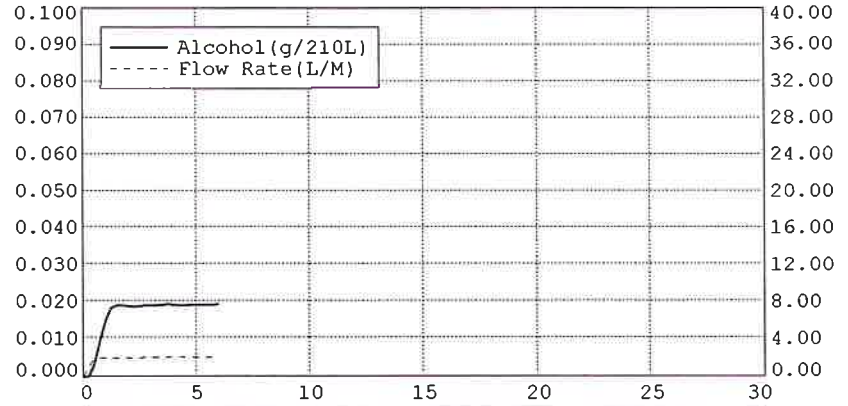
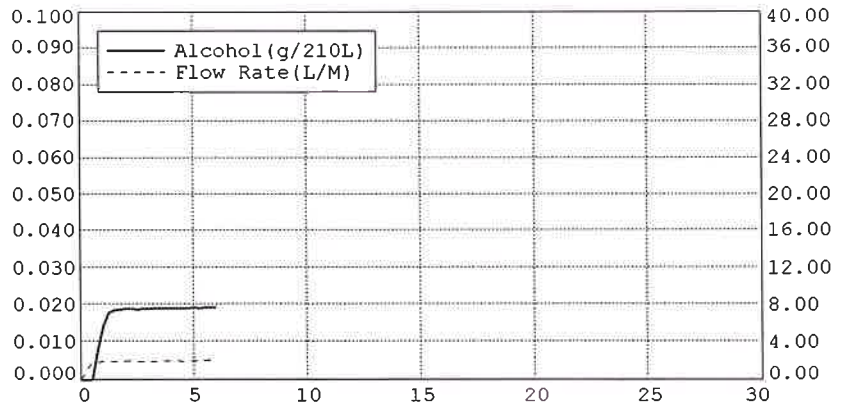
Date: 02/02/2022
Time: 09:40:06

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.67: 0.020
LOT #: AG100401
EXPIRATION: 01/04/2023
TANK PRESSURE: 761 psi

BLANK TEST	0.000	09:41
INTERNAL STANDARD	VERIFIED	09:41
EXTERNAL STANDARD	0.020	09:41
BLANK TEST	0.000	09:42
EXTERNAL STANDARD	0.020	09:42
BLANK TEST	0.000	09:43
EXTERNAL STANDARD	0.020	09:43
BLANK TEST	0.000	09:44
EXTERNAL STANDARD	0.021	09:44
BLANK TEST	0.000	09:45
EXTERNAL STANDARD	0.021	09:45
BLANK TEST	0.000	09:46

Average = 0.0204
Std Dev = 0.0005



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100376

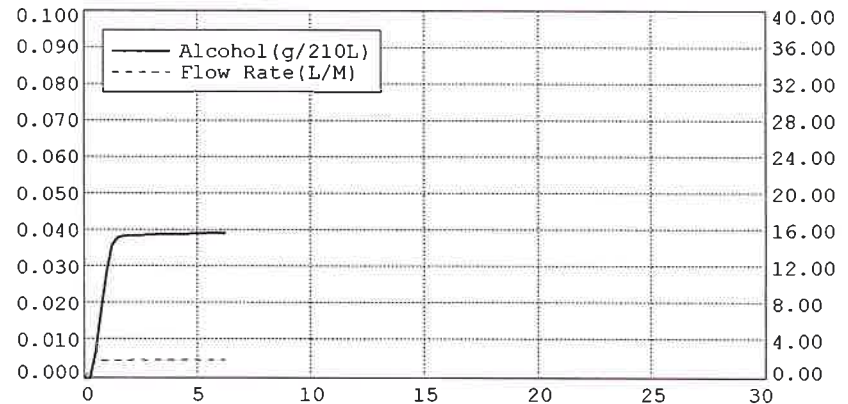
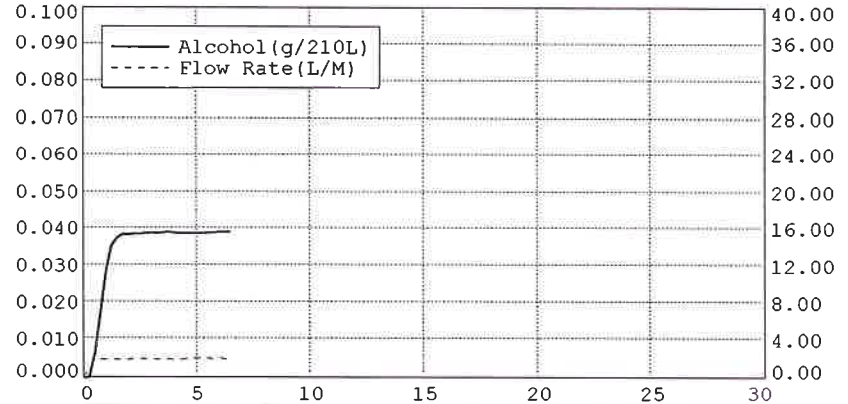
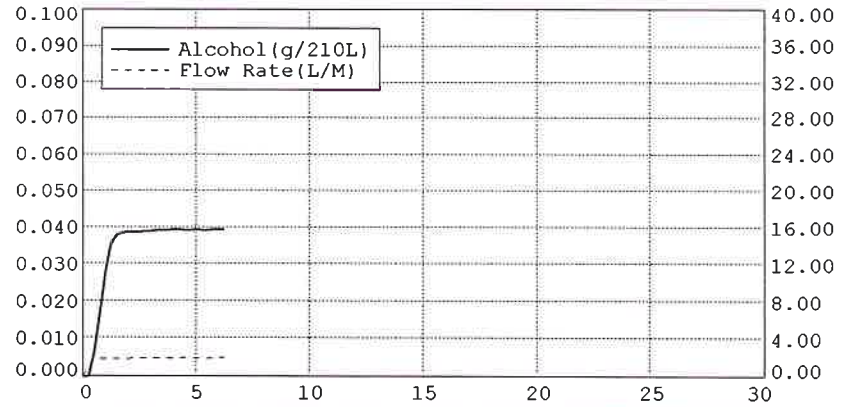
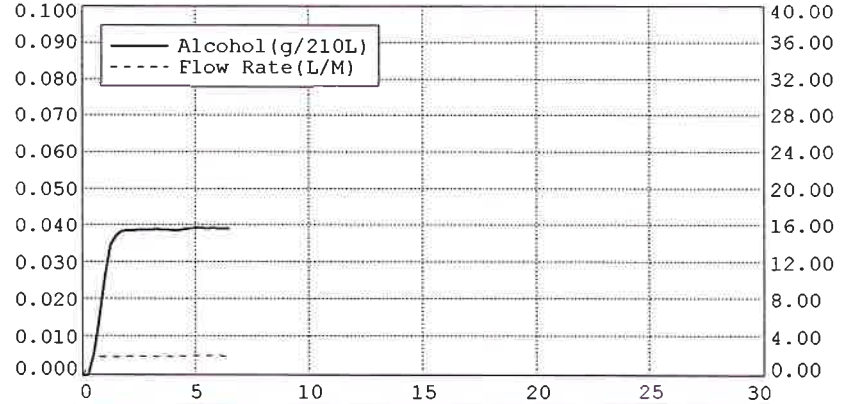
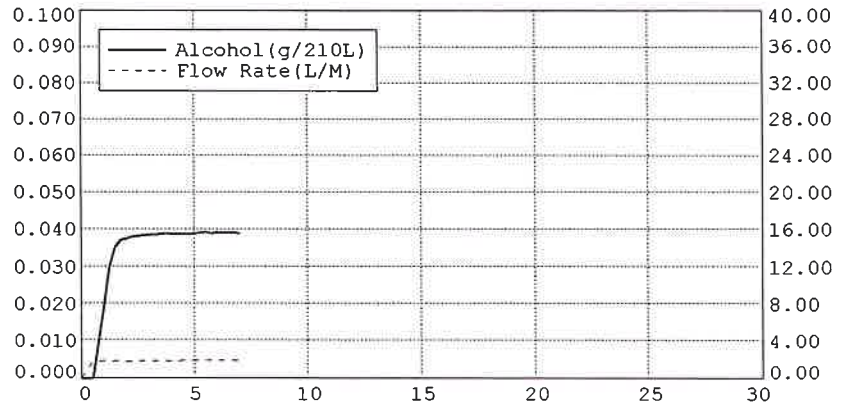
Date: 02/02/2022
Time: 09:48:41

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
TARGET AT 29.67: 0.040
LOT #: AG111710
EXPIRATION: 04/27/2023
TANK PRESSURE: 510 psi

BLANK TEST	0.000	09:49
INTERNAL STANDARD	VERIFIED	09:50
EXTERNAL STANDARD	0.040	09:50
BLANK TEST	0.000	09:51
EXTERNAL STANDARD	0.040	09:51
BLANK TEST	0.000	09:52
EXTERNAL STANDARD	0.040	09:52
BLANK TEST	0.000	09:53
EXTERNAL STANDARD	0.040	09:53
BLANK TEST	0.000	09:54
EXTERNAL STANDARD	0.040	09:54
BLANK TEST	0.000	09:55

Average = 0.0400
Std Dev = 0.0000



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100376

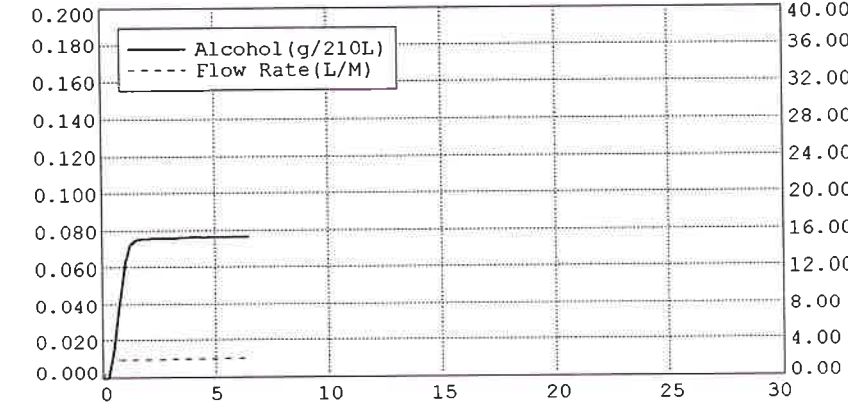
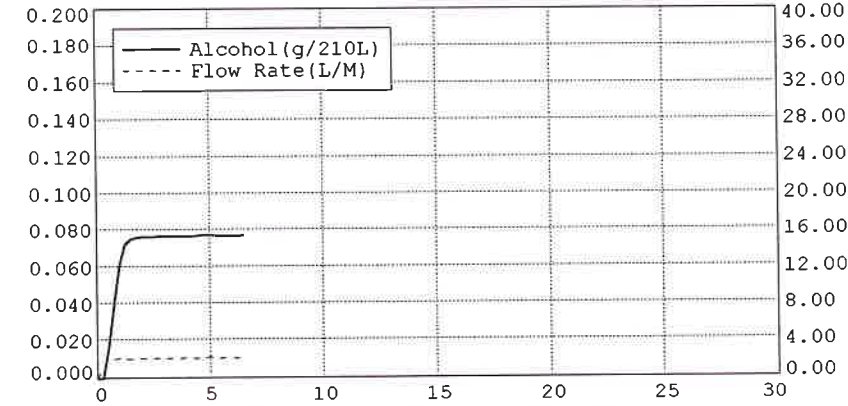
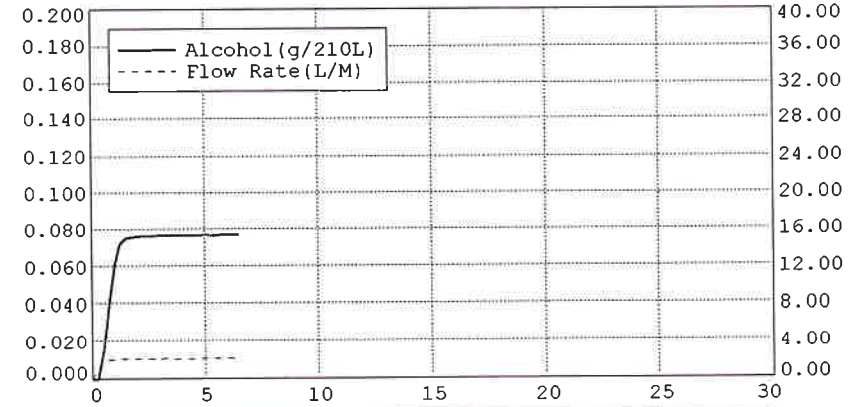
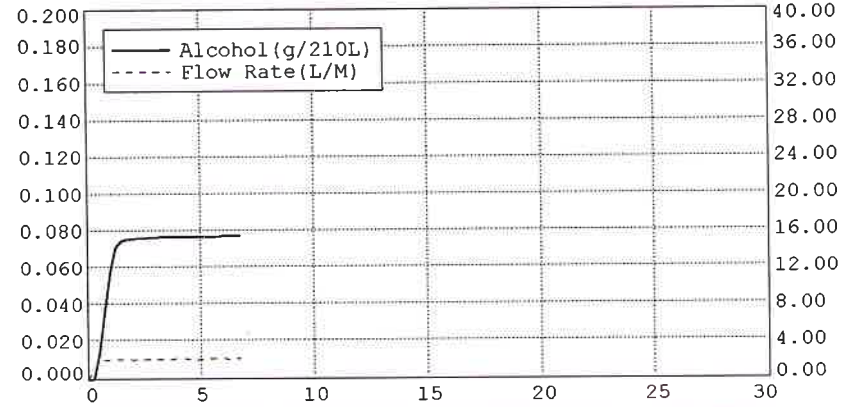
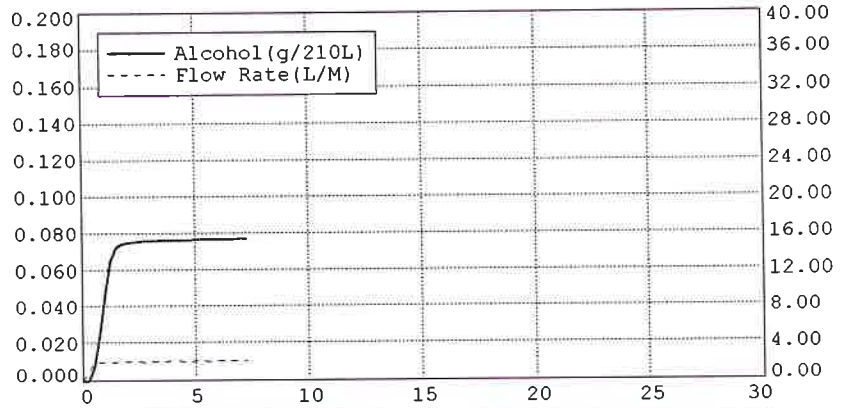
Date: 02/02/2022
Time: 09:56:01

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.66: 0.079
LOT #: AG018102
EXPIRATION: 06/29/2022
TANK PRESSURE: 833 psi

BLANK TEST	0.000	09:57
INTERNAL STANDARD	VERIFIED	09:57
EXTERNAL STANDARD	0.078	09:57
BLANK TEST	0.000	09:58
EXTERNAL STANDARD	0.078	09:58
BLANK TEST	0.000	09:59
EXTERNAL STANDARD	0.078	09:59
BLANK TEST	0.000	10:00
EXTERNAL STANDARD	0.078	10:00
BLANK TEST	0.000	10:01
EXTERNAL STANDARD	0.078	10:01
BLANK TEST	0.000	10:02
EXTERNAL STANDARD	0.078	10:02
BLANK TEST	0.000	10:02

Average = 0.0780
Std Dev = 0.0000



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt: 100376

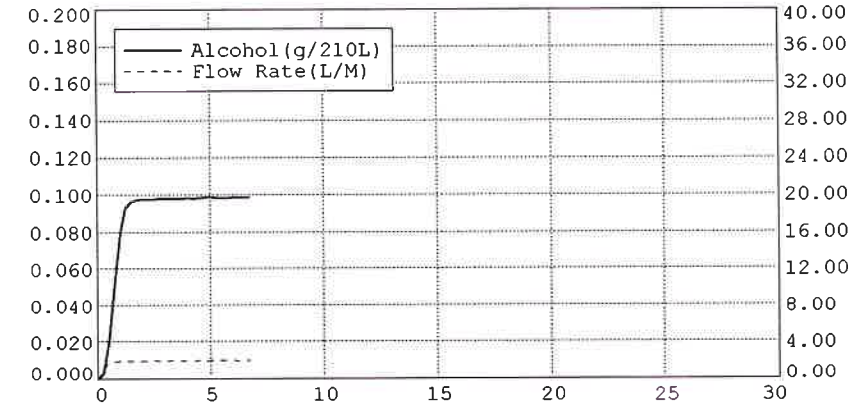
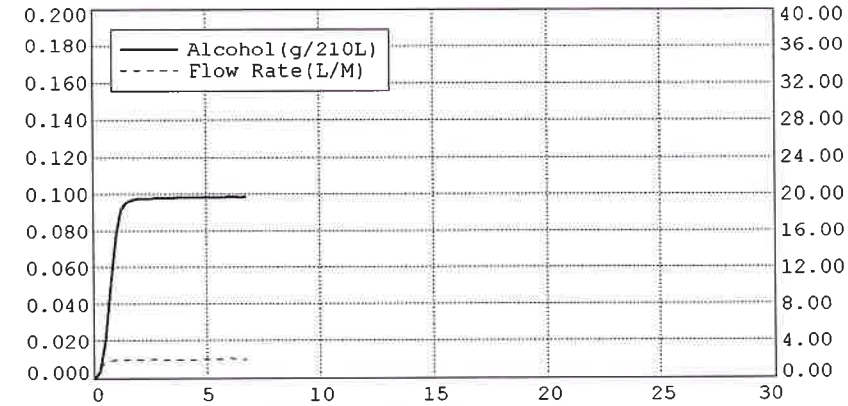
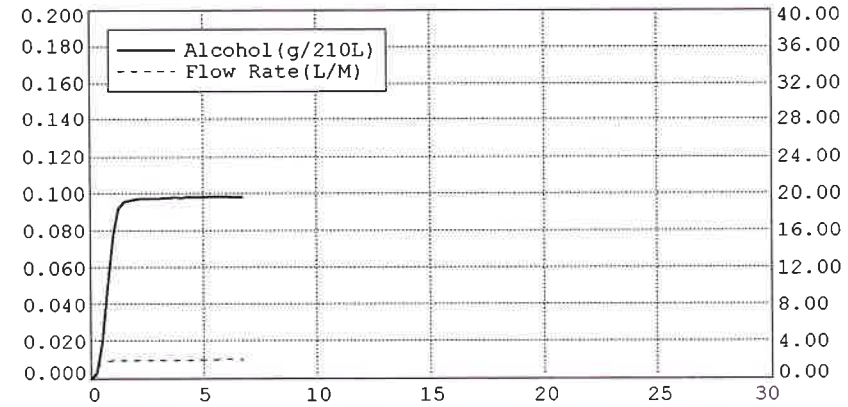
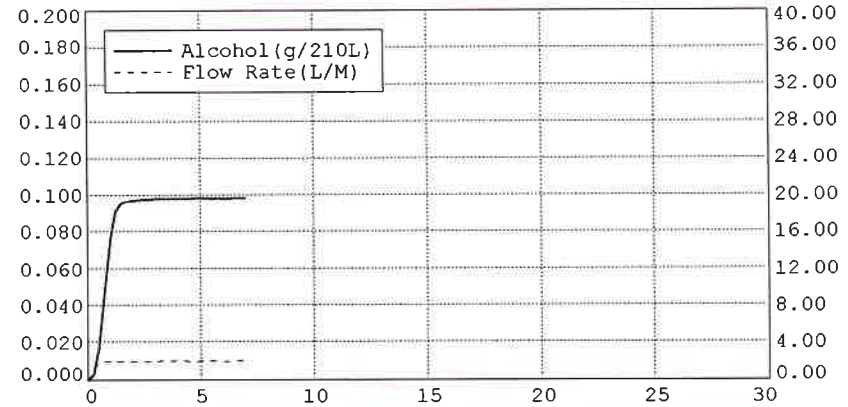
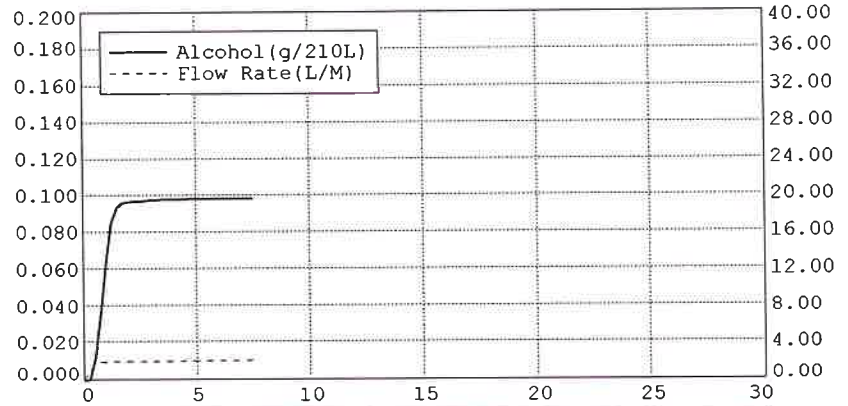
Date: 02/02/2022
 Time: 10:04:27

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.66: 0.099
 LOT #: AG108404
 EXPIRATION: 03/25/2023
 TANK PRESSURE: 771 psi

BLANK TEST	0.000	10:05
INTERNAL STANDARD	VERIFIED	10:05
EXTERNAL STANDARD	0.099	10:06
BLANK TEST	0.000	10:06
EXTERNAL STANDARD	0.099	10:07
BLANK TEST	0.000	10:08
EXTERNAL STANDARD	0.099	10:08
BLANK TEST	0.000	10:09
EXTERNAL STANDARD	0.099	10:09
BLANK TEST	0.000	10:10
EXTERNAL STANDARD	0.099	10:10
BLANK TEST	0.000	10:11

Average = 0.0990
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 5

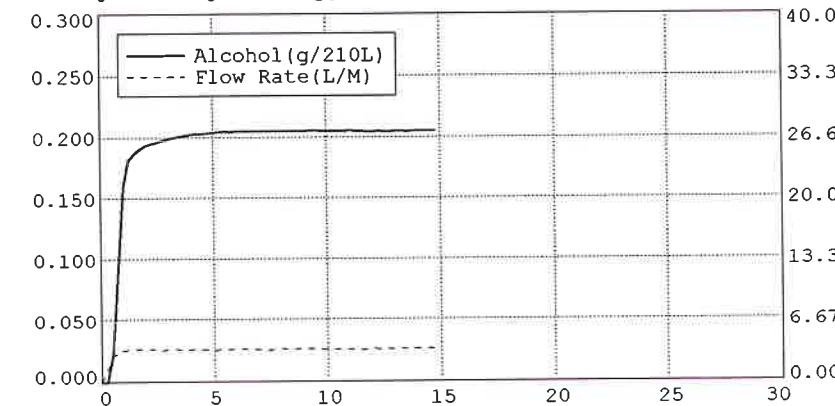
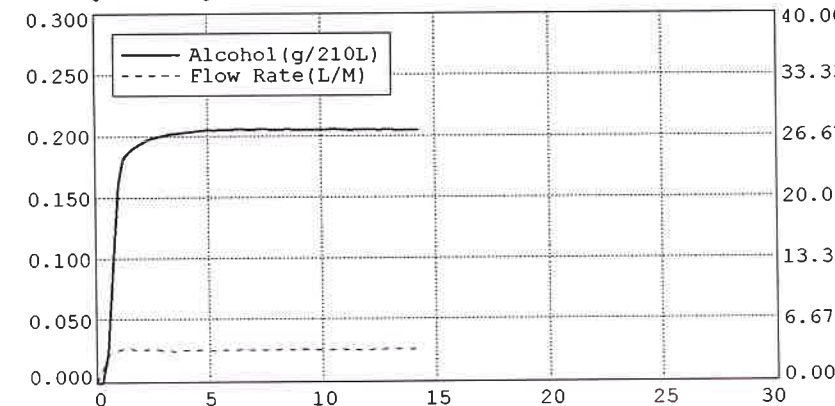
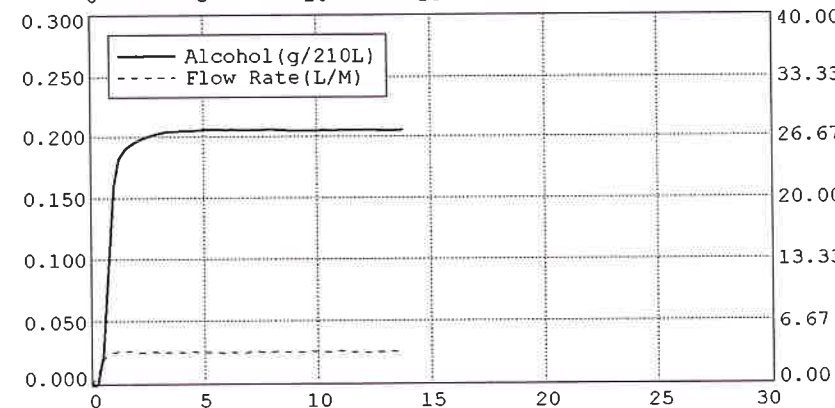
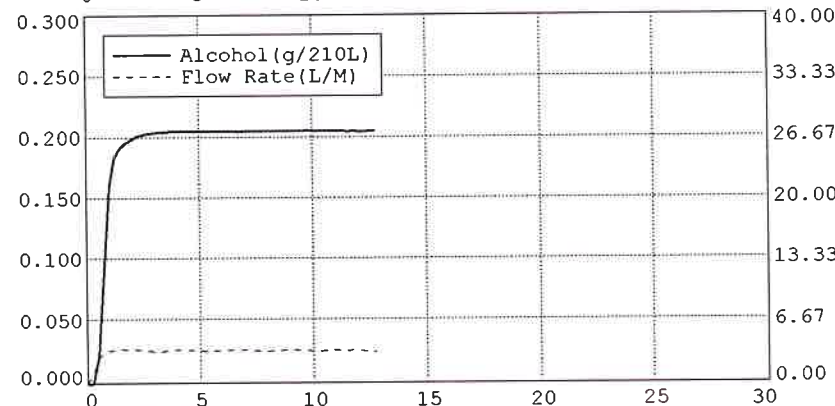
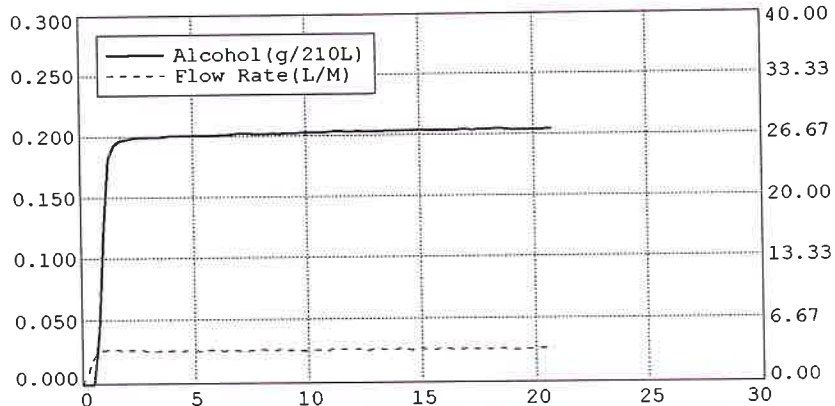
Alaska Department of Public Safety
 DATAMASTER dmt: 100376

Date: 02/02/2022
 Time: 10:12:19

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.200
 LOT #: 20510
 EXPIRATION: 12/03/2022

BLANK TEST	0.000	10:13
INTERNAL STANDARD	VERIFIED	10:13
EXTERNAL STANDARD	0.205	10:14
BLANK TEST	0.000	10:15
EXTERNAL STANDARD	0.205	10:15
BLANK TEST	0.000	10:16
EXTERNAL STANDARD	0.205	10:16
BLANK TEST	0.000	10:17
EXTERNAL STANDARD	0.205	10:17
BLANK TEST	0.000	10:18
EXTERNAL STANDARD	0.206	10:19
BLANK TEST	0.000	10:20

Average = 0.2052
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 6

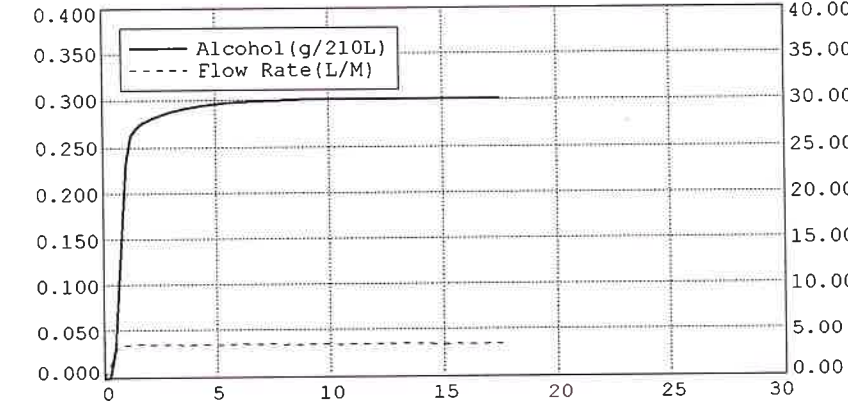
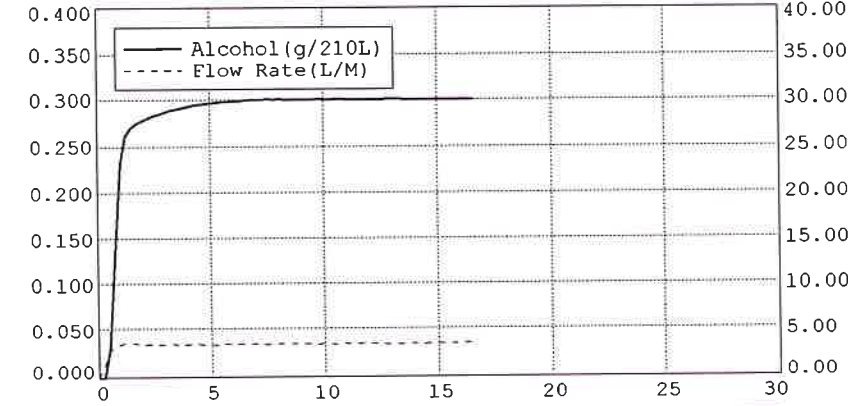
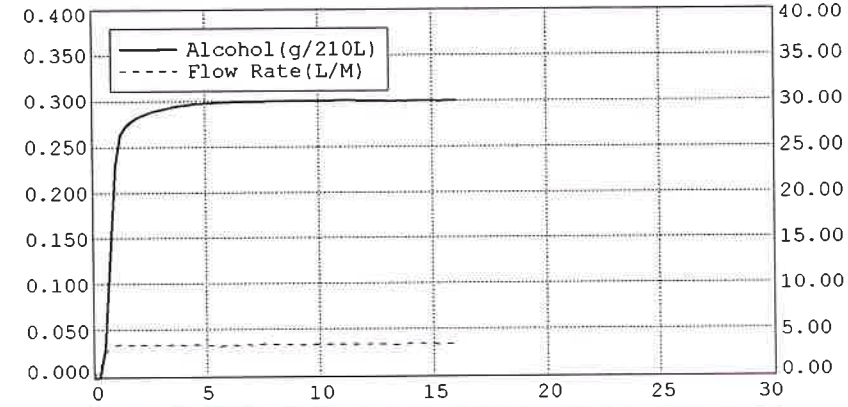
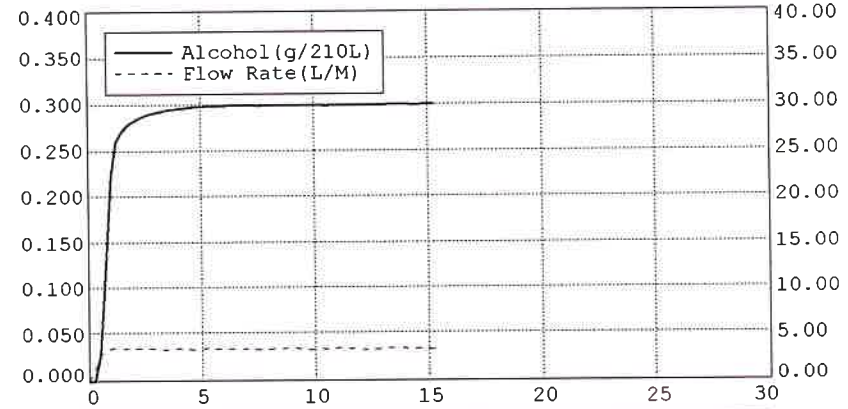
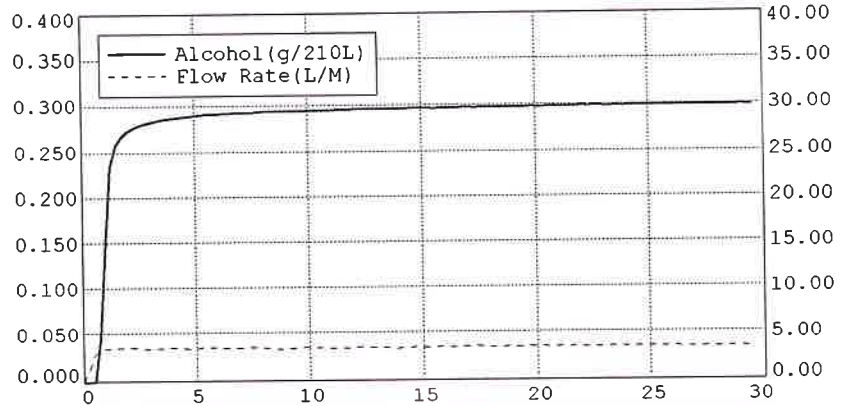
Alaska Department of Public Safety
DATAMASTER dmt: 100376

Date: 02/02/2022
Time: 10:21:05

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.300
LOT #: 21030
EXPIRATION: 02/02/2023

BLANK TEST	0.000	10:22
INTERNAL STANDARD	VERIFIED	10:22
EXTERNAL STANDARD	0.299	10:22
BLANK TEST	0.000	10:23
EXTERNAL STANDARD	0.300	10:24
BLANK TEST	0.000	10:25
EXTERNAL STANDARD	0.300	10:25
BLANK TEST	0.000	10:26
EXTERNAL STANDARD	0.300	10:26
BLANK TEST	0.000	10:27
EXTERNAL STANDARD	0.301	10:28
BLANK TEST	0.000	10:29

Average = 0.3000
Std Dev = 0.0007



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100376

Date: 02/02/2022
Time: 12:35:37

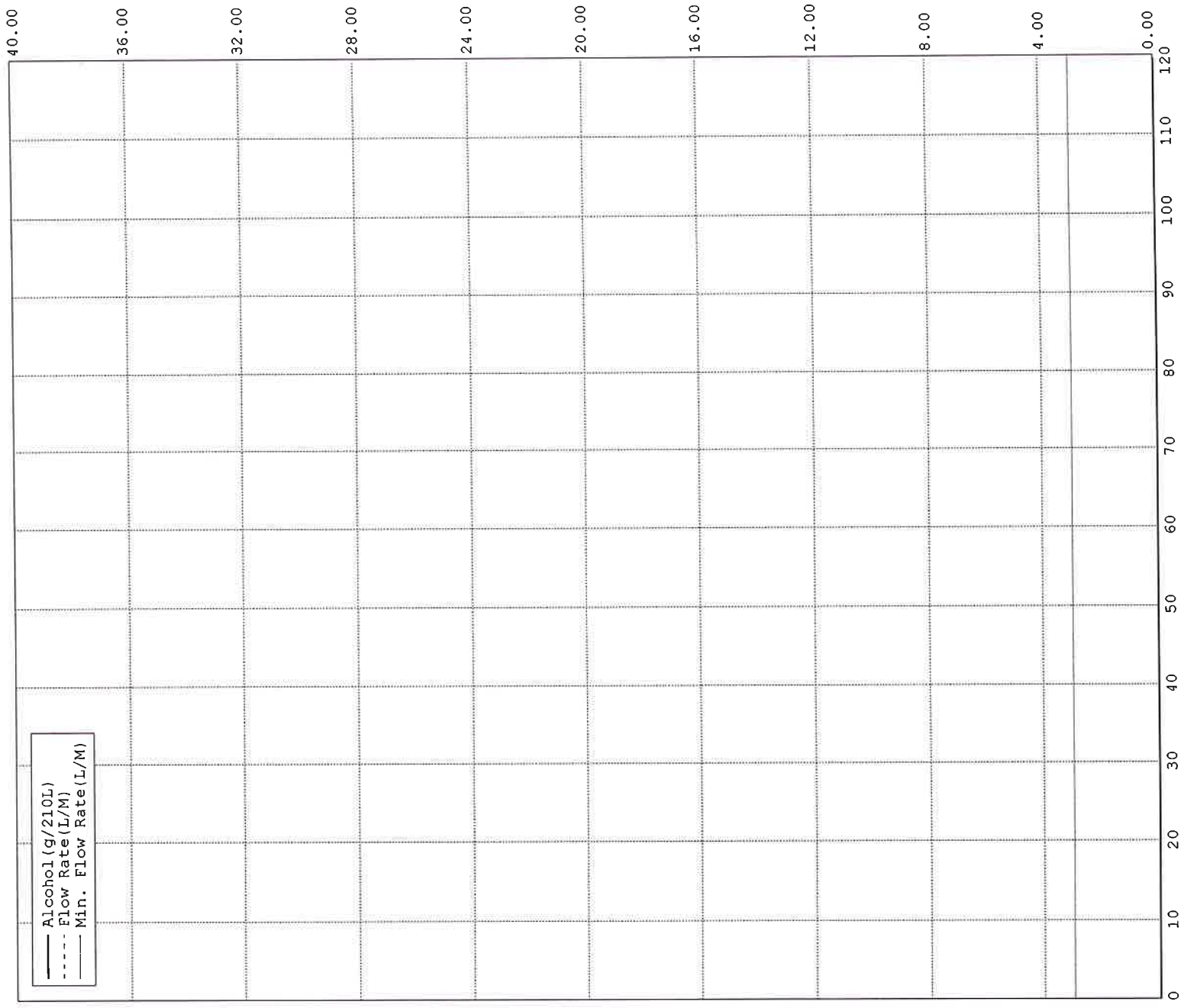
SUBJECT NAME:
TEST TEST
LICENSE #: INCOMPLETE

OPERATOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 22-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.64: 0.079
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK PASSED 12:36
BLANK TEST 0.000 12:36
INTERNAL STANDARD VERIFIED 12:36
EXTERNAL STANDARD 0.077 12:37
BLANK TEST 0.000 12:38
SUBJECT SAMPLE INCOMPLETE 12:40



SUBJECT TEST

Alaska Department of Public Safety

DATA MASTER dmt: 100376

Date: 02/02/2022

Time: 13:29:26

SUBJECT NAME:

TEST TEST

LICENSE #: INVALID

OPERATOR NAME:

COLLEEN S OBRVANT

OPERATOR'S #: 6237

DEPT/AGENCY:

AAA1

CASE/REPORT: 22-1234

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 29.65: 0.079

LOT #: AG018102

EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK

BLANK TEST

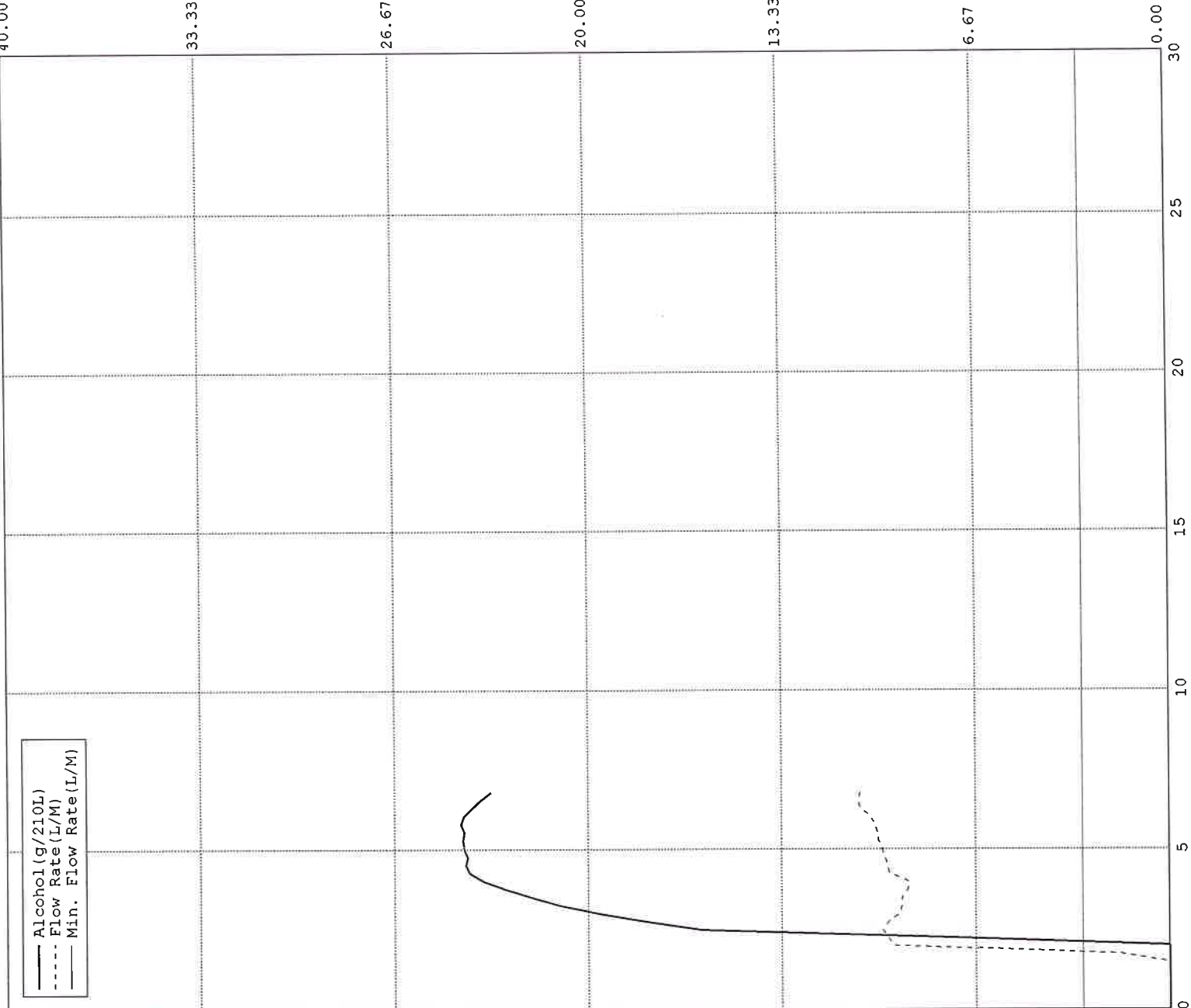
INTERNAL STANDARD

EXTERNAL STANDARD

BLANK TEST

SUBJECT SAMPLE

PASSED 13:31
0.000 13:31
VERIFIED 13:31
0.078 13:31
0.000 13:32
INVALID 13:32



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100376

Date: 02/02/2022
Time: 13:23:00

SUBJECT NAME:
TEST TEST
LICENSE #: MAX ATTEMPTS

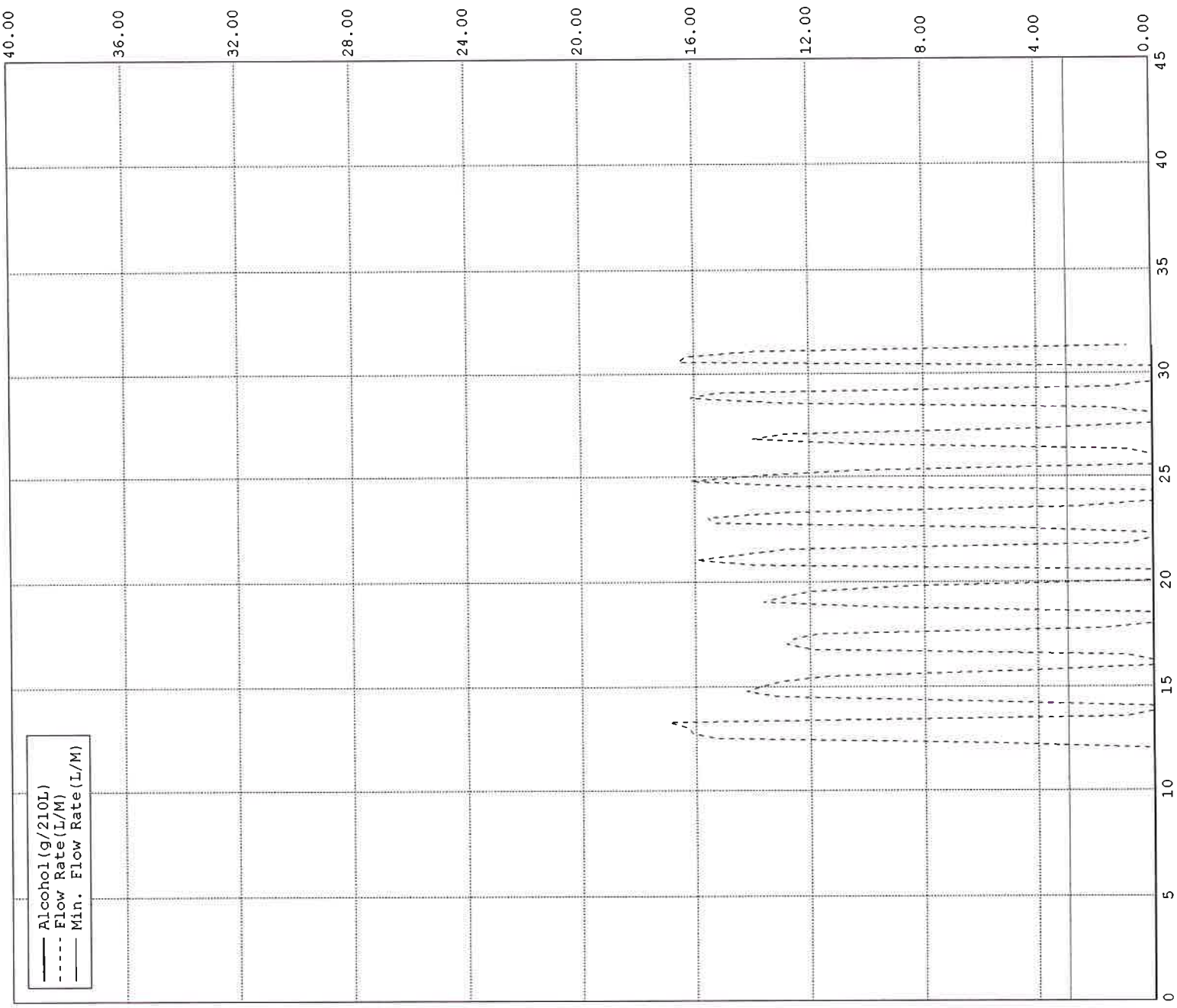
OPERATOR NAME:
COLLEEN S OBRVANT
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 22-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.64: 0.079
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK PASSED 13:23
BLANK TEST 0.000 13:24
INTERNAL STANDARD VERIFIED 13:24
EXTERNAL STANDARD 0.078 13:24
BLANK TEST 0.000 13:25
SUBJECT SAMPLE XXX 13:25

Maximum Attempts Exceeded



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100376

Date: 02/02/2022
Time: 13:15:07

SUBJECT NAME:
TEST TEST
LICENSE #: RFI

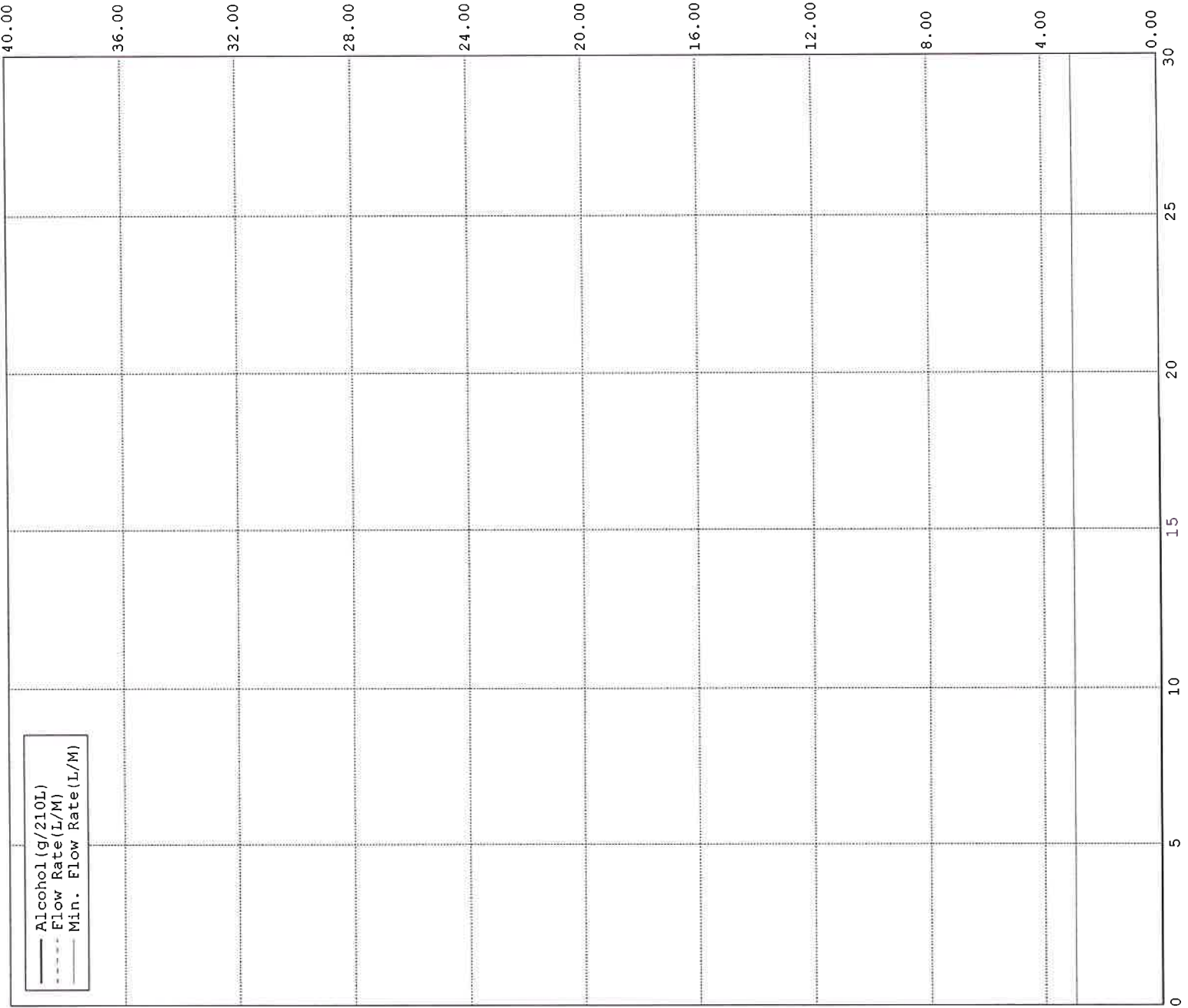
OPERATOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 22-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.63: 0.079
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK PASSED 13:18
BLANK TEST 0.000 13:18
INTERNAL STANDARD VERIFIED 13:18
EXTERNAL STANDARD 0.078 13:19
BLANK TEST 0.000 13:19

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100376

Date: 02/02/2022
Time: 10:33:37

SUBJECT NAME:

TEST TEST

LICENSE #: INT-ACETONE

OPERATOR NAME:

COLLEEN S OBRyant

OPERATOR'S #: 6237

DEPT/AGENCY:

AAA1

CASE/REPORT: 22-1234

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 29.65: 0.079

LOT #: AG018102

EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK

PASSED 10:34

BLANK TEST

0.000 10:34

INTERNAL STANDARD

VERIFIED 10:35

Xq = 0.077 (1.71%)

0.078 10:35

EXTERNAL STANDARD

X[1] = 0.0777 (-0.0013) (0.0037)

0.000 10:36

BLANK TEST

XXX

SUBJECT SAMPLE

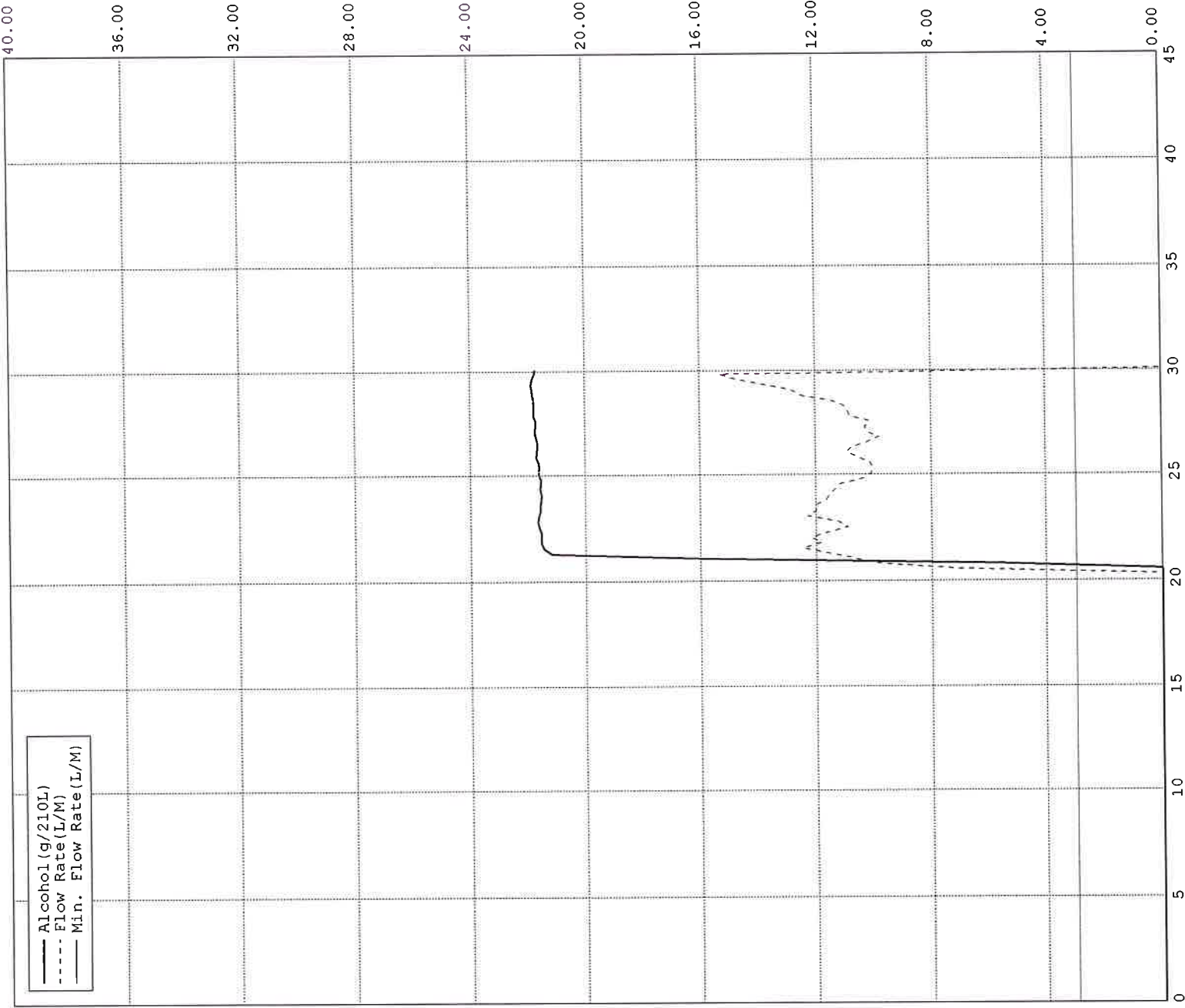
X[1] = 0.1079 (-0.0153) (0.0024)

Interference Detected

Filter 2 Avg = -0.0016

Filter 3 Avg = 0.0008

CKB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100376

Date: 02/02/2022
Time: 11:10:21

SUBJECT NAME:
TEST TEST
LICENSE #: INT-IPA

OPERATOR NAME:
COLLEEN S OBRVANT
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 22-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.65: 0.079
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK PASSED 11:11
BLANK TEST 0.000 11:11
INTERNAL STANDARD VERIFIED 11:11
Xq = 0.076 (0.23%) 0.077 11:11
EXTERNAL STANDARD (0.0032)
X[1] = 0.0771 (-0.0015) 0.000 11:12
BLANK TEST XXX 11:13
SUBJECT SAMPLE X[1] = 0.1177 (-0.0311) (0.0023)

Interference Detected



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100376

Date: 02/02/2022
Time: 11:16:05

SUBJECT NAME:
TEST TEST
LICENSE #: INT-NEGATIVE

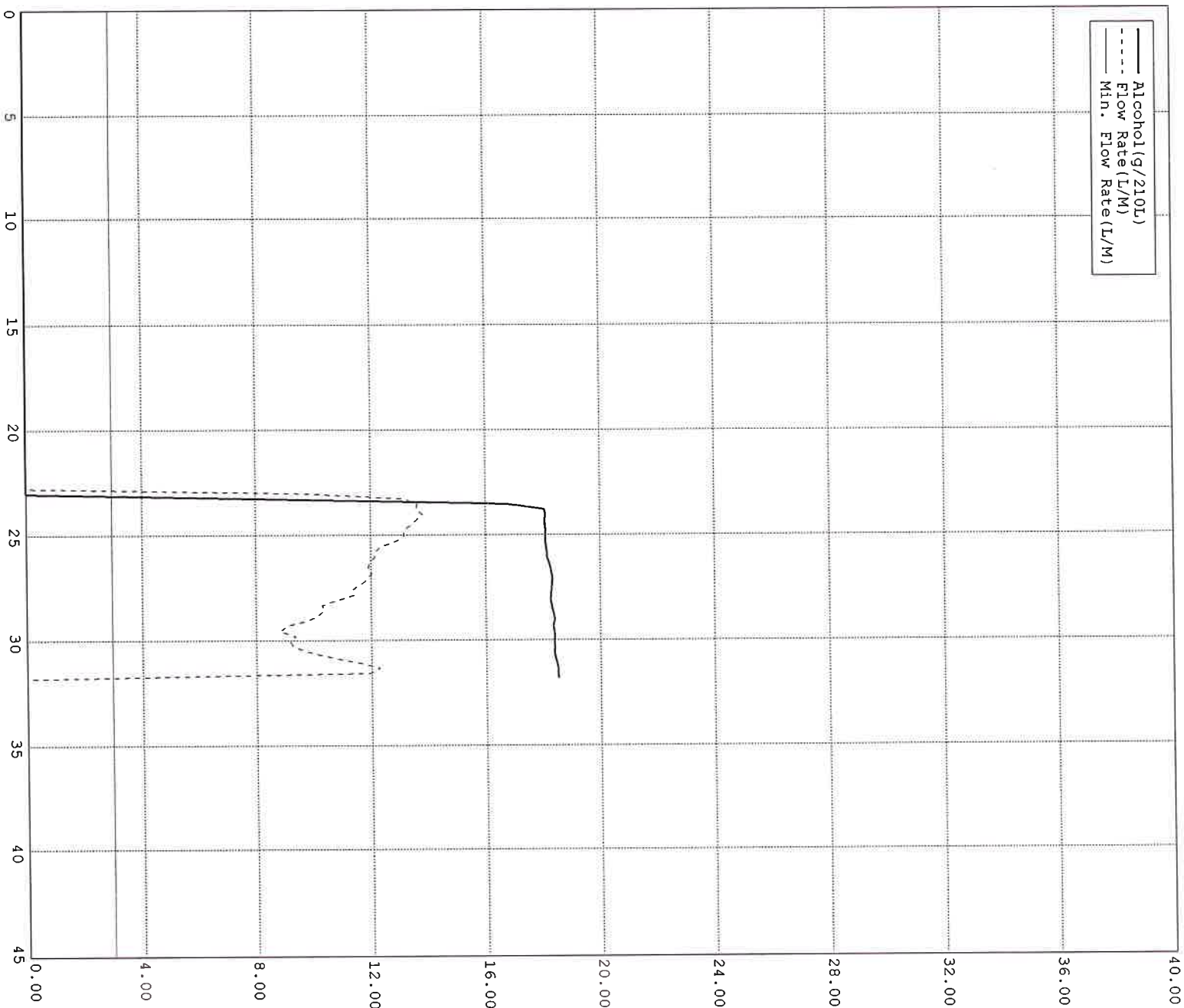
OPERATOR NAME:
COLLEEN S OBRyant
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 22-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.65: 0.079
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	11:17
BLANK TEST	0.000	11:17
INTERNAL STANDARD	VERIFIED	11:17
Xq = 0.077 (1.02%)	0.078	11:17
EXTERNAL STANDARD	X[1] = 0.0777 (-0.0012)	(0.0022)
BLANK TEST	0.000	11:18
SUBJECT SAMPLE (Vol=1.68L)	0.092	11:19
X[1] = 0.0927 (-0.0002)	(0.0005)	
BLANK TEST	0.000	11:20
EXTERNAL STANDARD	0.077	11:20
X[1] = 0.0773 (-0.0023)	(0.0019)	
BLANK TEST	0.000	11:21

RB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100376

Date: 02/02/2022
Time: 13:45:07

SUBJECT NAME:
TEST TEST
LICENSE #: NONDRINKING

OPERATOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 22-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.64: 0.079
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK PASSED 13:46
BLANK TEST 0.000 13:46
INTERNAL STANDARD VERIFIED 13:47
EXTERNAL STANDARD 0.078 13:47
BLANK TEST 0.000 13:48
SUBJECT SAMPLE (Vol=1.77L) 0.000 13:48
BLANK TEST 0.000 13:49
EXTERNAL STANDARD 0.078 13:49
BLANK TEST 0.000 13:50

